Aron Teh

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💼 Professional Experience

Stripe   Mar 2024 – present | Dublin, Ireland
Software Engineer
- Extended Klarna integration pricing structure to support custom pricing for *multiple financing periods* ⧉ .
  - Facilitated **$20M/month** in new payment volume due to early adoption from large enterprise merchants.
  - Coordinated between engineering, product and pricing teams, coding across **Ruby** and **Java** codebases.
  - Identified critical pricing system shortfalls. Proposed and rallied large cross-team improvement efforts.
- Built **API** features for Stripe's Klarna Integration in collaboration with Klarna's major version API upgrade.
  - Individually scoped and implemented a complex, nested Supplementary Purchase Data field, enabling Klarna to complete assertive risk assessments, minimising fraud and improving conversion.
  - Introduced support to correlate *purchase countries with payments* ⧉ , facilitating regulatory compliance.
- **Leadership**: Organised a 3-day knowledge sharing onsite for a newly-formed team of **4** Stripe engineers.
- Served on the interview committee. Wrote and provided guidance for new interview question creation.

Amazon   Nov 2022 – Feb 2024 | London, U.K.
Software Engineer
- Implemented right-to-left language and layout support for Prime Video's **React**/**TypeScript** application.
  - Built the 2-dimension RTL input navigation logic, and the global application direction state manager.
  - Planned and delegated tasks to **3** engineers. Launch in **8** regions increased Prime subscriptions by **11.52%**.
- Redesigned legacy React elements into performant **SolidJS** components, reducing app FPS bottlenecks.
- Migrated Prime Video's metrics and monitoring system to a structured, efficient and predictable platform.
- Resolved customer-impacting high severity on-call incidents, utilising **AWS** CloudWatch and Elasticsearch.

THG   Sep 2021 – Oct 2022 | Manchester, U.K.
Software Engineer
- Developed complex **Angular** UIs in collaboration with UX designers, used by **100+** enterprise clients.
- Maintained Java **GraphQL** APIs powering the Content Management System (CMS) for *THG Commerce* ⧉ .
- Created and owned the team's documentation, improving engineer onboarding and development velocity.

🎓 Education

Imperial College London   2017 – 2021 | London, U.K.
MEng Aeronautical Engineering, 2:1 (69.6%)
- Master's Thesis ⧉ : Explored a parallel **Python** implementation and solution to the sparse conic optimisation problem, using the Alternating Direction Method of Multipliers.
- Modules: **High Performance Computing**, Mathematics, Numerical Analysis, Optimisation, Finance.

🧩 Notable Technical Projects

Arceo ⧉   2023
- Full-stack web app where users could generate and customise fashion designs using fine-tuned **AI** models.
- Supported multi-modal image generation and enterprise-level **authentication**, **storage** and responsiveness.

SkyStory ⧉   2022
- Dynamically themed, responsive weather PWA**,** built with **Angular**, **Tailwind** and an external weather **API**.
- Integrated **Firebase** authentication and Firestore NoSQL database saves queries for authenticated users.

♟ Volunteering and Leadership

President, Imperial College London Chess Club   2018 – 2019 | London, U.K.
Formed, participated and led Imperial team to 1st place victories in BUCA ⧉ , *LCL* ⧉ and *20/20 Championship*.

Volunteer, World Chess Championship Match   2018 | London, U.K.
Exclusively managed playing stage for Carlsen and Caruana alongside FIDE organisers, arbiters and security.

🧠 Skills and Interests

- **Technical Skills**: React (v19), Next.js (v15), Angular (JavaScript), MongoDB, REST, GraphQL, Jest, JUnit, AWS, Testing, gRPC, Bazel, Prometheus, Docker, Kubernetes, CI/CD, Flask, Python, Git, SQL, Bash, npm, RxJS, Axios
- **Interests**: Chess ⧉ (National Champion, FIDE Master), Quantitative Finance, Machine Learning ⧉
- **Languages**: English (Native), Chinese (Native), German (Beginner), Cantonese (Beginner)